

 $\boxtimes$ 

No

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## Air Operating Permit Excess Emissions Report Form Part II

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Name of Facility	Shell, Puget S Refinery	ound	Reported by		Tim Figgie	
Date of notification	April 30, 2014		Incident type breakdown/ or shutdown	upset/startup	Breakdown	
Start Date	April 30, 2014		Start Time:		1:00 PM	
End Date	April 30, 2014		End Time:		3:00 PM	
Process unit or system(s): Flare						
Incident Description						
On April 30, 2014 at a gas compressor (WGC absorber tower charge function. The loss of by which caused the WGC The 4BG30 pump tripp mechanism. The spare malfunctioning switch. Pump 4BG30 was remothe auto-start system and spare was the succession of the system and spare the system and spare was remother to the system and spare was remother to the system and system and spare was remother to the system and spare was r	tripped, follow pump 4BG30 to ooth absorber to to trip resulting ed out most lik pump (4BG30 Pump 4BG30a oved from servi	wed by a to tripped out ower charted in excessed and to the total auto-so was started by regions.	trip of the FC ut and the sp ge pumps ca ss flaring. o vibration th start did not a ted up manu pair and pum	C Unit. The Wo are pump 4BG3 aused high pres nat triggered th activate when r	GC tripped when the 30a auto-start did not sure in the system, se mechanical trip needed due to a se FCCU to restart.	
Immediate steps take FGR was operating to r	ecover as much	h excess f	flare gas as p	ossible.		
Estimated Excess Emissions:  Based on online H2S CEMS and fuel gas		lutant(s): 2		Pounds (Estim 1255	nds (Estimate): 5	
Scheduled et Poor or inaction Careless, por Poor or inaction A reasonable Did the facility received No	equipment start equipment shutch lequate design for, or inadequate lequate mainter y preventable con e any complaint	cup down ate operatinance condition	tion	apply):		
	e details below)					

Did the incident result in the violation of an ambient air quality standard

Air Operating Permit Excess Emissions Report Form Part II Page 2
Yes (provide details below)
Root and other contributing causes of incident:
The root cause of this event was the failed auto-start function on 4BG30a.
The root cause of the incident was:  (The retention of records of all required monitoring data and support information shall be kept for a period of five years from the date of the report as per the WAC regulation (173-401-615))  Identified for the first time  Identified as a recurrence (explain previous incident(s) below – provide dates)
Are the emissions from the incident exempted by the NSPS or NESHAP "malfunction" definitions below?  No Yes (describe below)
<u>Definition of NSPS "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 60.2 <u>Definition of NESHAP "Malfunction"</u> : Any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions. 40 CFR 63.2  Analyses of measures available to reduce likelihood of recurrence (evaluate possible design, operational, and maintenance changes; discuss alternatives, probable effectiveness, and cost; determine if an outside consultant should be retained to assist with analyses):
The auto-start system on 4BG30a will be repaired.
Description of corrective action to be taken (include commencement and completion dates):  See above
If correction not required, explain basis for conclusion:
See above
Attach Reports, Reference Documents, and Other Backup Material as Necessary. This report satisfies the requirements of both NWCAA regulation 340, 341, 342 and the WAC regulation (173-400-107).
Is the investigation continuing? $\square$ No $\square$ Yes Is the source requesting additional time for completion of the report? $\square$ No $\square$ Yes
Based upon information and belief formed after reasonable inquiry, I certify that the statements and information in this document and all referenced documents and attachments are true, accurate and complete.
Prepared By: _ Travis Bolsinger/Tim Figgie Date: May 28, 2014
Responsible Official or Designee: Date: Date: